

AbstractMECHANICAL SYSTEM FOR POWER CHANGE BETWEEN
THE INPUT AND OUTPUT THEREOF

The system includes at least two power disc elements, each mounted for rotation on a central shaft which is typically fixed. The first power disc element includes a first peripheral gear portion at the rim of the power disc element by which the first power disc element is turned. A first system gear mounted on a first system shaft mates with the first peripheral gear portion with first system shaft being offset from the central shaft. The first power disc element also has a second peripheral gear portion in the vicinity of the rim extending forwardly of the first power disc element. A second power disc element has a plurality of outer drive gears mounted for rotation to a rearwardly facing surface, positioned to mate with the second peripheral gear portion on the first power disc element. A central gear is fixed to the central shaft and mates with the outer drive gears on the second power disc element. A second system gear mates with a peripheral gear portion of the second power disc element, with the second system gear mounted on a second system shaft which is also offset from the central shaft.